

## ABSTRACT

A method for compressing data, for example, seismic data, audio data, or video data, comprising the steps of transforming data of a frame into a first  
5 sequence of real numbers by using an entropy increasing transform method;  
quantizing said first sequence of real numbers of said frame to obtain a first  
sequence of integers; quantizing said first sequence of integers of said frame  
using a predicted sequence of integers representing said first sequence of  
integers to produce a second sequence of integers; and encoding said integers  
10 of said second sequence of said frame into a stream of bits representing the  
compressed sequence of integers of said frame. Furthermore, the method  
comprises decompressing said compressed sequence by inverting the steps of  
transforming, quantizing said first sequence of real numbers, quantizing said  
first sequence of integers of said frame, and decoding in reverse order.

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(Fig. 1)